

**METHOD AND APPARATUS FOR MEASUREMENT USING
PIEZOELECTRIC SENSOR**

ABSTRACT OF THE DISCLOSURE

5

A method and apparatus for measuring electrical current using a piezoelectric sensor. A first electrical conductor for carrying a current to be sensed is attached to one face of a piezoelectric element. A second electrical conductor for carrying a reference current, the second electrical conductor is attached to the opposite face of the piezoelectric element and is aligned parallel to the first electrical conductor. The force between the first and second electrical conductors is applied to the piezoelectric element and produces an electrical potential between the faces of the piezoelectric element. The electrical potential may be used to determine the current in the first conductor.

10